



PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				Complete if Known	
				<i>Application Number</i>	10/087,437
				<i>Filing Date</i>	March 2, 2002
				<i>First Named Inventor</i>	Kimmo Laiho
				<i>Art Unit</i>	2684
				<i>Examiner Name</i>	Alan T. Gantt
				<i>Attorney Docket Number</i>	004770.00033
Sheet	1	of	2		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TG		US- 2004/0242163 A1	12-02-2004	Karr et al.	
TG		US- 2004/0102213 A1	05-27-2004	Karr et al.	
TG		US- 2004/0102214 A1	05-27-2004	Karr et al.	
TG		US- 2004/0102215 A1	05-27-2004	Karr et al.	
TG		US- 2004/0097194 A1	05-20-2004	Karr et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			

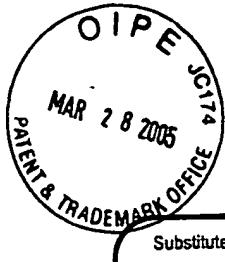
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
TG		FALK, Aaron David, "A System design For A Hybrid Network Data Communications Terminal Using Asymmetric TCP/IP To Support Internet Applications," Master of Science Thesis, 1994, 78 pages			
TG		FT Interactive Data, printed from http://www.interactivedata.com/images(IDC_timeline.swf , on 3/28/05, 4 pages			
TG		ANKENY, Jason, "Safe At Any Speed", printed from http://wirelessreview.com/ar/wireless_safe_speed/ , on 3 pages, Wireless, June 1, 2004			
TG		"Mobility and the Implications of Wireless Technologies," printed from http://www.wws.princeton.edu/cgi-bin/byteserv.prl/~ota/disk1/1995/9547/954705.PDF , chapter 2, pages 47-64, September, 1995			

Examiner Signature		Date Considered	2/11/06
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Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/087,437
(Use as many sheets as necessary)				Filing Date	March 2, 2002
				First Named Inventor	Kimmo Laiho
				Art Unit	2684
				Examiner Name	Alan T. Gantt
Sheet 2 of 2				Attorney Docket Number	004770.00033

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
TR		Welcome to eSignal!, printed from http://www.esignal.com/default.asp , on March 22, 2005, 2 pages			
		Welcome to the QuoTrek Product Site, printed from http://www.quotrek.com/ on March 22, 2005, 2 pages			
		VAIDYA, Nitin H., et al., "Scheduling data broadcast in asymmetric communication environments," Wireless Networks, Volume 5, Issue 3, May 1999, pages 171-182			
		"New Flexible Network-based RTK Service in Japan," printed from http://www.geomatics.ucalgary.ca/~lachapel/00GPSIP.pdf , 8 pages, Approximate Publication: after 1999			
		"Semiconductor Delivers Complete Solution for Microsoft's New Smart Personal Objects Technology Initiative," printed from http://www.national.com/news/item/0_1735_829_00.htm on March 28, 2005, 30 pages			
		American Meteorological Society, "Unidata's Internet Data Distribution (IDD) System: Two Years of Data Delivery," printed from http://www.unidata.ucar.edu/projects/idd/iips97/mitch.html , 6 pages, 1997			
		Unidata - IDD Principles, "Principles Underlying Internet Data Distribution," printed from http://www.unidata.ucar.edu/projects/idd/plans/principles.html , 2 pages, June 29, 1994			

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Sheet 1 of 1

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Art Unit	2684
Examiner Name	Alan T. Gant
Attorney Docket Number	004770.00033

U.S. PATENT DOCUMENTS

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	US-				
	US-				

FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TW		DE 199 10 023 A1	09-14-2000	Rohde & Schwarz GmbH & Co KG		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TW		KELLERER, W., "A Versatile Network Independent Server Architecture for Multimedia Information and Communication Services," In Proceedings of SmartNet2000, Sixth IFIP International Conference on Intelligence in Networks, Vienna, Austria, September 18-22, 2000, pages 1-20 http://www.lkn.ei.tum.de/~wolfgang/wk/publ/kellerer_smartnet00a.pdf	
TW		KELLERER, ET AL., W, "IP based enhanced Data Casting Services over Radio Broadcast Networks," In Proceedings of ECUMN 2000, IEEE European Conference on Universal Multiservice Networks, Colmar, France, October 2-4 2000, 9 pages http://www.lkn.ei.tum.de/~wolfgang/wk/publ/kellerer_ecumn2000.pdf	
TW		IMIELINSKI, Tomasz and BADRINATH, B.R., "Mobile wireless computing: challenges in data management, Communications of the ACM," Volume 37, Issue 10 (October 1994), Pages: 18 - 28, Year of Publication: 1994, ISSN:0001-0782	
TW		KLINGENBERG, Wolfgang and NEUTEL, Andreas, "MEMO: A Hybrid DAB/GSM Communication System for Mobile Interactive Multimedia Services," Proc. of ECMAST', Berlin, Germany, 1998, Lecture Notes in Computer Science Vol. 1425, Springer-Verlag Berlin Heidelberg New York, pages 493-503 http://impact-internal.lboro.ac.uk/memo/bosch/ecmast98.pdf	

Examiner Signature		Date Considered	2 / 11 / 06
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USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION Sheet 1 of 1			Attorney Docket No. 004770.00033	Serial No. 10/087,437		
			Applicant(s): Kimmo Laiho et al.			
			Filing Date: March 2, 2002		Group: 2684	
U.S. PATENT DOCUMENTS						
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
TR	6,266,536	7/24/01	Janky			
	5,970,059	10/19/99	Ahopelto et al.			
	5,936,965	8/10/99	Doshi et al.			
	5,764,700	6/9/98	Mäkinen			RECEIVED
	5,513,246	4/30/96	Jonsson et al.			JUL 07 2004
	4,601,586	7/22/86	Bahr et al.			Technology Center 2600
FOREIGN PATENT DOCUMENTS						
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation
						YES
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
EXAMINER 				DATE CONSIDERED 2/11/06		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

1

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Application Number	10/087,437
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First Named Inventor	Kimmo Laiho et al.
Art Unit	2684
Examiner Name	TBD

Attorney Docket Number

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		Number - Kind Code ² (if known)			
TR		US-5,936,965	8/10/99	Doshi et al.	
		US- 5,764,700	6/09/98	Makinen	
		US- 5,359,607	10/25/94	Nguyen et al.	
		US- 4,601,586	7/22/86	Bahr et al.	
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		US-			

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FOREIGN PATENT DOCUMENTS					
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TR		Written Opinion from PCT/IB03/00694 dated May 3, 2004	

Examiner Signature		Date Considered	2/11/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

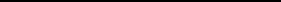
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First Named Inventor	Kimmo Laiho et al.
Art Unit	2684
Examiner Name	TBD
Attorney Docket Number	004770.00033

A rectangular stamp with rounded corners containing the text "RECEIVED" at the top, followed by "MAR 17 2003" in the center, and "Technology Center 2600" along the bottom diagonal.

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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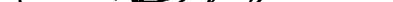
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		Group Art Unit	2684
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		Attorney Docket Number	004770.00033

*1-7-2003
Technology Center 2800*

OTHER PRIOR ART ~ NON PATENT LITERATURE DOCUMENTS

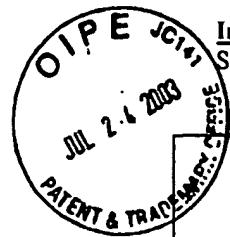
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Information Disclosure Statement

Serial No. 10/087,437

Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 004770.00033	SERIAL NUMBER 10/087,437
	APPLICANT Kimmo Laiho	
	FILING DATE March 2, 2002	GROUP ART UNIT 2684

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TR	2002/0025777 A1	2/28/02	Kawamata et al.			
	6,167,248	12/26/00	Hamalainen et al.			RECEIVED
	6,088,412	7/11/00	Ott			JUL 25 2003
	6,047,181	4/4/00	Suonvieri			
	5,870,675	2/9/99	Tuutijärvi et al.			Technology Center 2600
	5,513,246	4/30/96	Jonsson et al.			

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Search Report	

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IDS w/1449 form filed: July 24, 2003

Information Disclosure Statement
Serial No. 10/087,437



Sheet 1 of 1

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	APPLICANT Kimmo Laiho	
	FILING DATE March 2, 2002	GROUP ART UNIT 2684

U.S. PATENT DOCUMENTS

<u>EXAMINER INITIAL</u>	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TW	2003/0067943 A1	4/10/03	Arsenault et al.			
	6,490,727	12/3/02	Nazarathy et al.			
	6,356,555	3/12/02	Rakib et al.			
	6,335,766	1/1/02	Twitchell et al.			
	6,285,686	9/4/01	Sharma			

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Search Report	RECEIVED

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APR 3 0 2003

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		US-5,710,756	01-20-1998	Pasternak	
		US- 5,886,995	03-23-1999	Arsenault	
		US- 6,175,557	01-16-2001	Diachina et al.	
		US- 6,226,278	05-01-2001	Bursztyn	
		US- 6,262,982	07-17-2001	Donahue	
		US- 6,262,990	07-17-2001	Ejiri	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TP		WO 02/01879	01-03-2002	Aaltonen et al.		
		WO 02/03728	01-10-2002	Salo et al.		
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		WO 01/31963	05-03-2001	Hasan et al.		
		WO 01/72076	09-27-2001	Xu et al.		

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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

2

of

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Application Number	10/087,437
Filing Date	March 2, 2002
First Named Inventor	Kimmo Laiho et al.
Group Art Unit	2684
Examiner Name	TBD
Attorney Docket Number	004770.00033.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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Electronic Information Disclosure Statement

SYSTEM AND METHOD FOR BROADBAND DIGITAL BROADCASTING

Application:



10/087437

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Confirmation:

3461

OCT 04 2002

Applicant(s):

Kimmo Laiho

Technology Center 2600

Docket Number:

004770.00033

Group Art Unit:

Examiner:

search string:

(5745860 or 4449248 or 5539925 or 20020010763).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
TN	P01	5745860	1998-04-28		Kallin		
TP	P02	4449248	1984-05-15		Leslie et al.		
TK	P03	5539925	1996-07-23		Yli-Kotila et al.		

Published Applications

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
A							

	U01	20020010763	2002-01-24		Juha Salo et al.
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Remarks

(Remarks are not for responding to an office action.)

Pursuant to 37 C.F.R. 1.56 and in compliance with 37 C.F.R. 1.97, Applicant submits the above information for consideration by the Examiner. Applicant does not waive any right to take appropriate action to establish patentability over the listed documents should they be applied as a reference against the claims of the present application. Consideration of the cited information and making the same of record in the prosecution of the above noted application are respectfully requested. Should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

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Examiner Name	Date
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USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION Sheet 1 of 1			Attorney Docket No. 004770.00033		Serial No. 10/087,437	
			Applicant(s): Kimmo Laiho et al.			
			Filing Date: March 2, 2002			Group: 2643
U.S. PATENT DOCUMENTS						
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
FOREIGN PATENT DOCUMENTS						
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation
						YES
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
TP	Apostolis K. Salkintzis et al., "An In-Band Power-Saving Protocol for Mobile Data Networks", IEEE Transactions On Communications, Vol. 46, No. 9, September 1998, pages 1194-1205					
TP	Apostolis K. Salkintzis et al., "Performance Analysis of a Downlink MAC Protocol with Power-Saving Support", IEEE Transactions On Vehicular Technology, Vol. 49, No. 3, May 2000, pages 1029-1040					
EXAMINER			DATE CONSIDERED 2/1/06			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</small>						

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Patent and Trademark Office

Atty. Docket No.

004770.00033

Serial No.

10/087,437

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Applicant: Laiho et al

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March 2, 2002

Group: MAY 14 2002

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	MM/DD/YY Date	Name	Class	Subclass	Filing Date if Appropriate
TW	5,307,376	04/26/1994	Castelain et al			
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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

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Sheet 1 of 1

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/087,437
		Filing Date	03/02/2002
		First Named Inventor	Kimmo Laiho
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	004770.00033
Sheet	1	of	1

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Application Number	10/087,437
Filing Date	03/02/2002
First Named Inventor	Kimmo Laiho
Group Art Unit	
Examiner Name	
Attorney Docket Number	004770.00033

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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